

NIRMA LIMITED, BHAVNAGAR
MATERIAL SAFETY DATA SHEET

[As per Schedule 5 of the Gujarat Factories (Amended) Rules-1995 under rule 68-J, 2(2) & 2(3)]

SAFETY DATA SHEET					
1.CHEMICAL IDENTITY					
Chemical Name	SODA ASH (All Grade)		Chemical Classification		---
Synonyms	Crystal Carbonate		Trade Name		---
			C.A.S.No.		497-19-8
Formula	Na ₂ CO ₃		U.N.No.		---
Regulated Identifications	Shipping Name		---		
	Codes/Label		---		
	Hazardous Waste I.D.No.		---		
	Hazchem No.		---		
Hazardous Ingredients		C.A.S. No.	Hazardous Ingredients		C.A.S. No.
1	---		---	2	---
2.PHYSICAL AND CHEMICAL DATA					
BOILING Range / Point °C		Physical State		Appearance	
Decompose		Solid		Crystalline Powder	
Melting/Freezing Point °C		Vapour Pressure at 35°C		Odour	
---		---		Odourless	
Vapour Density (Air =1)		Solubility in water at 30°C		Others	
2.509		21.5 /100 parts at 20°C		---	
Specific Gravity (Water=1)		pH			
2.509 at 0°		11.6			
3.FIRE AND EXPLOSION HAZARD DATA					
Flammability		LEL		Flash Point °C	
No		Not Applicable %		Not Applicable (OC)	
TDG Flammability		UEL		Flash Point °C	
---		Not Applicable %		Not Applicable (CC)	
Autoignition Temperature °C		---		Combustible Liquid	---
Explosion Sensitivity to Impact		---		Flammable Material	---
Explosion Sensitivity to Static Electricity		---		Pyrophoric Material	---
Hazardous Combustion Product		---		Explosive Material	---
				Oxidiser	---
Hazardous Polymerisation		---		Organic Peroxide	---
Others		---		Corrosive Material	---
4.REACTIVE DATA					
Chemical Stability		Stable			
Incompatibility with other Material		---			
Reactivity		Can react violently with P ₂ O ₅ Al, H ₂ SO ₄ , Fe, Li, 2, 4, 6, Tri-nitrotolyne			
Hazardous Reaction Products		Decompose at 400°C and evolve CO ₂ and slowly absorb the moisture in air.			

5.HEALTH HAZARDS DATA

Routes of Entry	Inhalation, Skin & Eyes
Effects of Exposure/ Symptoms	---
Emergency Treatment	Remove cloth, Shoes, wash eye with plenty of water for 15 minutes, skin with soap and take doctor advice.

TLV (ACGIH)		STEL	
---	ppm	---	mg/m ³
Permissible Exposure Limit		Odour Threshold	
---	ppm	---	mg/m ³
LD ₅₀ (Oral Rat)	117 mg/Kg		
NFPA Hazard	Health	Flammability	Reactivity
Signals	---	---	---

6.PREVENTIVE MEASURES

Personal Protective Equipment	Rubber / PVC gloves, Dust Mask, Safety Goggles, Gum Boot Cover All other.
Handling & Storage Precautions	Keep containers closed to store, wear rubber gloves, safety goggles & cover all. Keep containers in cool, dry and well ventilated place.

7.EMERGENCY / FIRST AID MEASURES

FIRE	Fire Extinguishing Media	Not Flammable
	Special Procedure	Cool
	Unusual Hazardous	---
EXPOSURE	First Aid Measures	Remove cloth, Shoes, wash eye & skin with plenty of water, take Doctor's advice.
	Antidotes / Dosages	Symptomatic treatment, no specific antidote.
SPILLS	Steps to be Taken	Sweep it, dilute with sufficient water and neutralise with 6N- HCl
	Waste Disposal Method	Drain in to sewer with abundant water.

8.ADDITIONAL INFORMATION / REFERENCES

9.MANUFACTURERS / SUPPLIERS DATA

Name of Firm	Nirma Ltd.	Contact Person in Emergency	Mr. D. G. Jakhade
Mailing Address	Kalatalav, Bhavnagar	Local Bodies Involved	--
Telephone / Telex Nos.	(0278) 2885301 to 4 / (0278) 2885309-19	Standard Packing	--
Telegraphic Address	--	Trem Card Details / Ref.	--

10.DISCLAIMER